



PATENT  
830003-2002.1  
09/714,712

**REMARKS**

A paper-copy of the Sequence Listing, and a computer readable form (floppy disk) of the Sequence Listing are enclosed. The Statements required by 37 C.F.R. §1.821(f) and (g) are set forth below.

Pursuant to 37 C.F.R. §1.821 (g), the undersigned attorney of record hereby states that this submission, filed in accordance with 37 C.F.R. §1.821(g), does not contain new matter.

Pursuant to 37 C.F.R. §1.821(f), the undersigned attorney hereby states that the content of the paper and computer readable copies of the Sequence Listing submitted in accordance with 37 C.F.R. §1.821 (c) and (e), respectively, are the same.

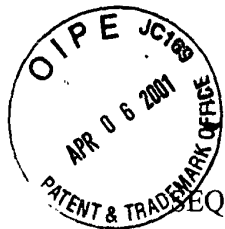
In view of the amendments, remarks and enclosures, the application complies with the requirements for computer readable disclosure of the biological sequences under 37 C.F.R. §1.821-1.825. Please note that this response is being submitted without a formal Notice to Comply.

If any additional fees are incurred for entry and consideration of this Amendment, the Examiner is authorized to charge any fees or credit any overpayment to Deposit Account No. 50-0320.

Respectfully submitted;  
FROMMER LAWRENCE & HAUG LLP  
Attorneys for Applicants

By:

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SEQ ID NOs: are assigned as follows:

SEQ ID NO: 1 refers to human BDCA-2 cDNA sequence

SEQ ID NO: 2 refers to mouse BDCA-2 amino acid sequence

SEQ ID NO: 3 refers to mouse Dectin-2 cDNA sequence

SEQ ID NO: 4 refers to mouse Dectin-2 cDNA sequence

SEQ ID NO: 5 refers to human DCIR amino acid sequence

SEQ ID NO: 6 refers to basic unit of a linking peptide (GGGGS)

SEQ ID NO: 7 refers to BDCA-2 forward primer (tgaaagaac cacaccccg aagt)

SEQ ID NO: 8 refers to BDCA-2 reverse primer (tagctttcta caacggtgga tgcc)

SEQ ID NO: 9 refers to BDCA-2 ASN glycosylation domain (NCSV)

SEQ ID NO: 10 refers to BDCA-2 ASN glycosylation domain (NSSY)

SEQ ID NO: 11 refers to BDCA-2 ASN glycosylation domain (NVTF)

SEQ ID NO: 12 refers to Dectin-2 ASN glycosylation domain (NESL)

SEQ ID NO: 13 refers to DCIR ASN glycosylation domain (NESS)

SEQ ID NO: 14 refers to BDCA-2 cAMP- and cGMP- dependent protein kinase phosphorylation site domain (KRLS)

SEQ ID NO: 15 refers to DCIR cAMP- and cGMP- dependent protein kinase phosphorylation site domain (KKTt)

SEQ ID NO: 16 refers to BDCA-2 Casein kinase II phosphorylation site domain (TREE)

SEQ ID NO: 17 refers to BDCA-2 Casein kinase II phosphorylation site domain (SSEE)

SEQ ID NO: 18 refers to Dectin Casein kinase II phosphorylation site domain (STKE)

SEQ ID NO: 19 refers to Dectin Casein kinase II phosphorylation site domain (STSE)

SEQ ID NO: 20 refers to Dectin Casein kinase II phosphorylation site domain (TEAE)



- SEQ ID NO: 21 refers to Dectin Casein kinase II phosphorylation site domain (SICE)
- SEQ ID NO: 22 refers to DCIR Casein kinase II phosphorylation site domain (TYAE)
- SEQ ID NO: 23 refers to DCIR Casein kinase II phosphorylation site domain (TTKE)
- SEQ ID NO: 24 refers to DCIR Casein kinase II phosphorylation site domain (TTLE)
- SEQ ID NO: 25 refers to DCIR Casein kinase II phosphorylation site domain (SWQD)
- SEQ ID NO: 26 refers to DCIR Casein kinase II phosphorylation site domain (SEKD)
- SEQ ID NO: 27 refers to DCIR Casein kinase II phosphorylation site domain (SEKD)
- SEQ ID NO: 28 refers to DCIR Casein kinase II phosphorylation site domain (SDPE)
- SEQ ID NO: 29 refers to DCIR Casein kinase II phosphorylation site domain (SVCE)
- SEQ ID NO: 30 refers to BDCA Tyrosine kinase phosphorylation site domain (KLREYQQY)
- SEQ ID NO: 31 refers to mouse Dectin Tyrosine kinase phosphorylation site domain  
(RRLYELHTY)
- SEQ ID NO: 32 refers to BDCA-2 Amidation site domain (GRR)
- SEQ ID NO: 33 refers to mouse Dectin N-myristylation site (GVCWTL)
- SEQ ID NO: 34 refers to mouse Dectin N-myristylation site (GTMVSE)
- SEQ ID NO: 35 refers to mouse Dectin N-myristylation site (GCCPNH)
- SEQ ID NO: 36 refers to DCIR N-myristylation site (GINTAS)
- SEQ ID NO: 37 refers to consensus immunoreceptor tyrosine-based inhibitory motif ITIM motif;  
(I/V)XYXX(L/V)
- SEQ ID NO: 38 refers to the ITIM motif in DCIR (ITYAEV)



All cDNAs were normalized to the mRNA expression level of several different housekeeping genes (glyceraldehyde-3-phosphate dehydrogenase, phospholipase A2,  $\alpha$ -tubulin, and  $\beta$ -actin). Normalization ensures an accurate assessment of tissue specificity and relative abundance of target mRNAs. The same amount of cDNA (about 50pg) was used for each RT-PCR reaction. RT-PCR reactions were performed with specific primers for BDCA-2 (forward: 5'-TTGAAAGAACCACACCCCGAAAGT (SEQ ID NO: 7) and reverse: 5'-TAGCTTTCTACAACGGTGGATGCC (SEQ ID NO: 8) and primers for the four housekeeping genes mentioned above using AdvanTaq Plus DNA Polymerase (CLONTECH).



Replacement paragraph pages 107-108.

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The information on the splice variants of BDCA-2 was obtained by RT-PCR amplification of mRNA from plasmacytoid DC with primers complementary to mRNA sequences in front of the start codon (forward primer: 5'-TTGAAAGAACCACACCCCGAAAGT (SEQ ID NO: 7) and behind the stop codon (reverse primer: 5'-TAGCTTTCTACAACGGTGGATGCC (SEQ ID NO: 8), cloning of the resulting fragments in plasmids and sequencing of the inserts. The results are shown in Figure 20. For comparison, splice variants of mouse dendritic cell-associated C-type lectin 2 (Dectin-2) are shown in Figure 21.